

**RF Test Data for BT(BLE) (Conducted Measurement)****Product Name:** short video remote controller & Self-timer**Trade Mark:** **Test Model:** D01**FCC ID:** 2A66I-D01**Environmental Conditions**

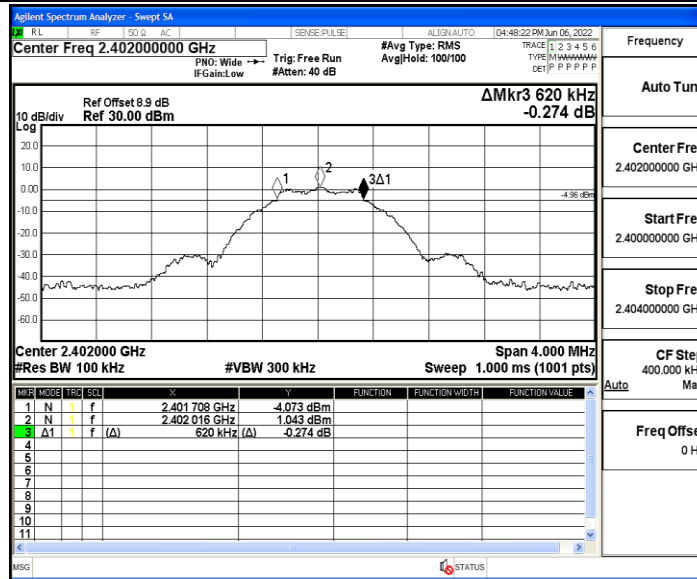
|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

**Appendix A: DTS Bandwidth****Test Result**

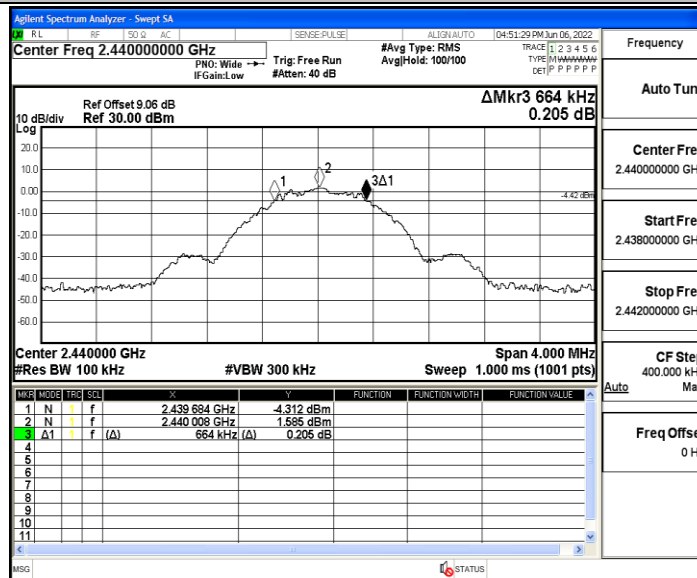
| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.620           | 2401.708 | 2402.328 | 0.5        | PASS    |
|          |         | 2440    | 0.664           | 2439.684 | 2440.348 | 0.5        | PASS    |
|          |         | 2480    | 0.644           | 2479.696 | 2480.340 | 0.5        | PASS    |

## Test Graphs

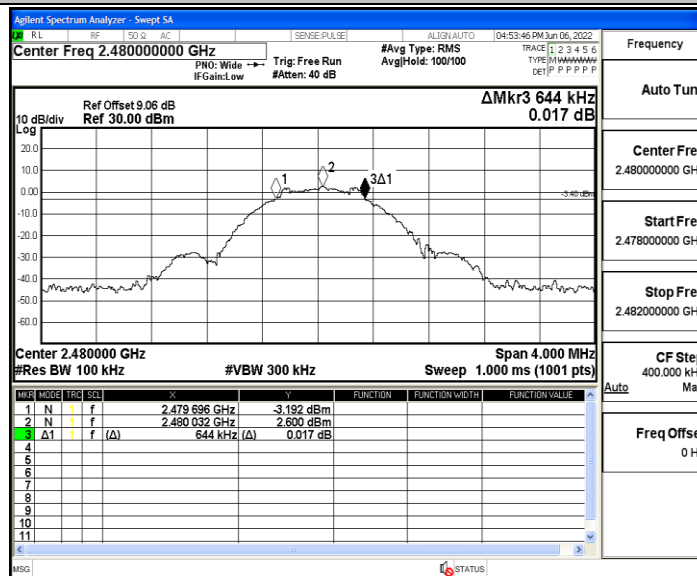
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



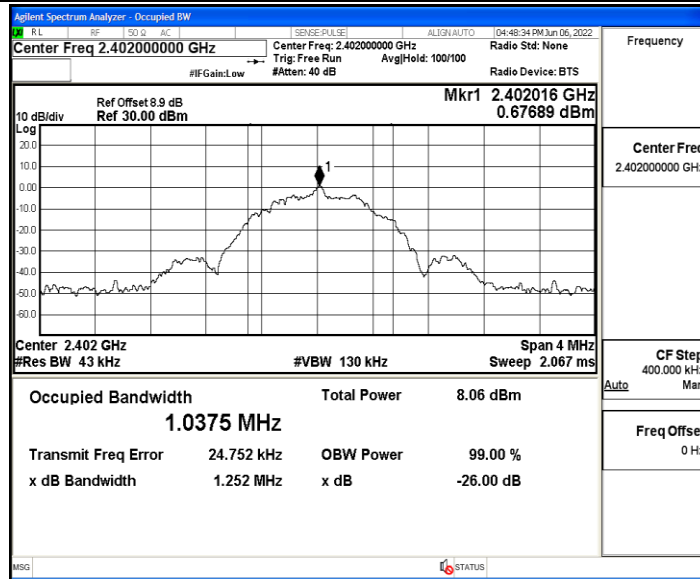
## Appendix B: Occupied Channel Bandwidth

### Test Result

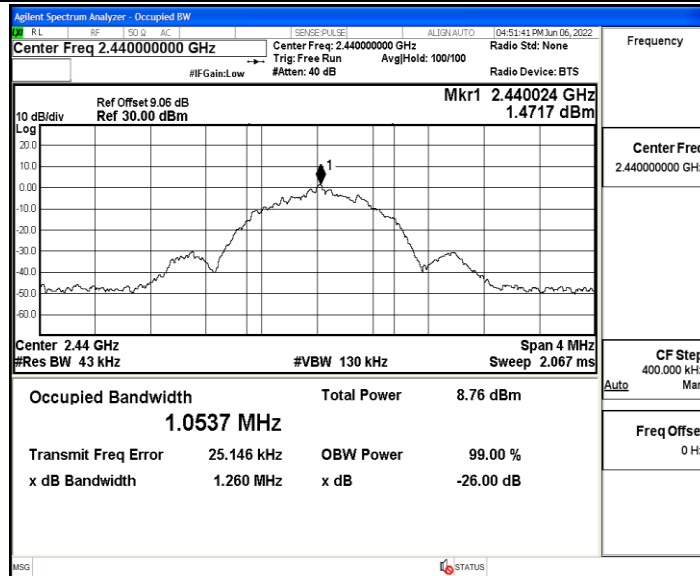
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0375    | 2401.506 | 2402.544 | ---        | ---     |
|          |         | 2440    | 1.0537    | 2439.498 | 2440.552 | ---        | ---     |
|          |         | 2480    | 1.0434    | 2479.506 | 2480.550 | ---        | ---     |

## Test Graphs

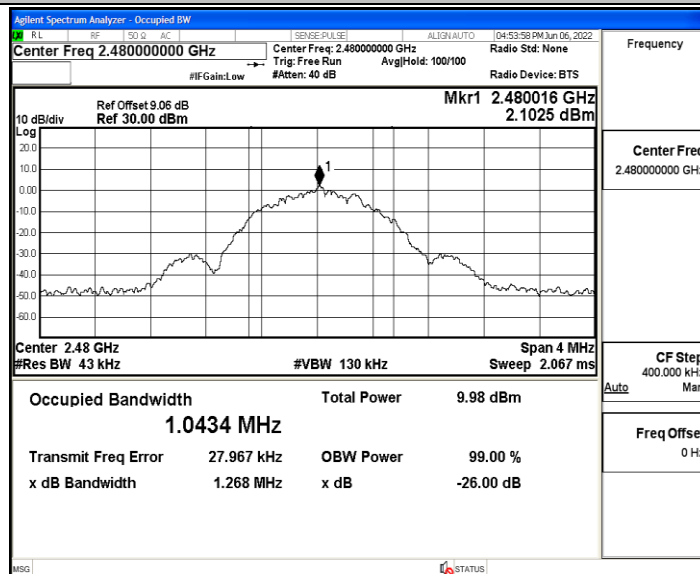
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

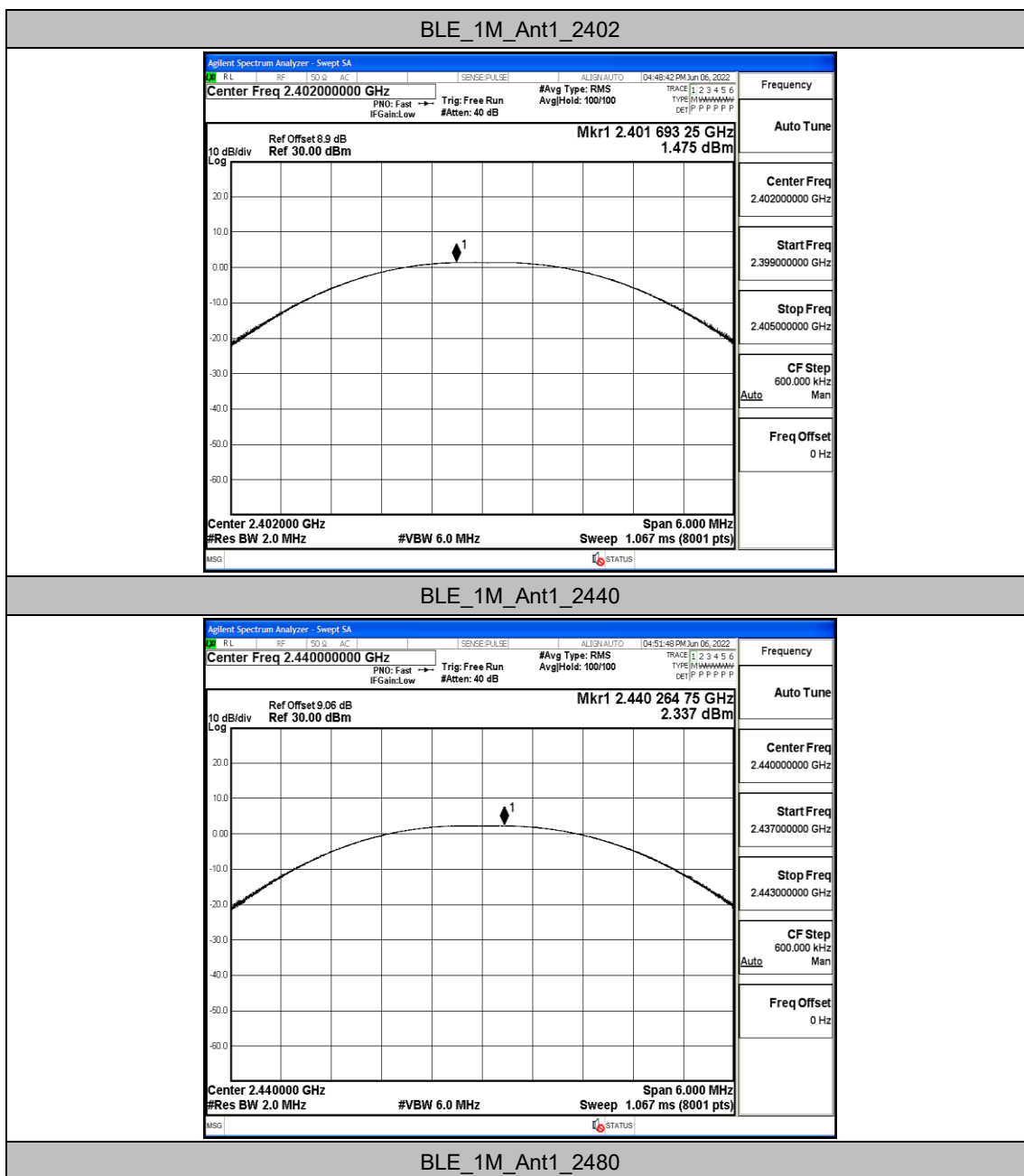


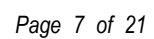
## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.48        | ≤30        | PASS    |
|          |         | 2440    | 2.34        | ≤30        | PASS    |
|          |         | 2480    | 3.2         | ≤30        | PASS    |

## Test Graphs



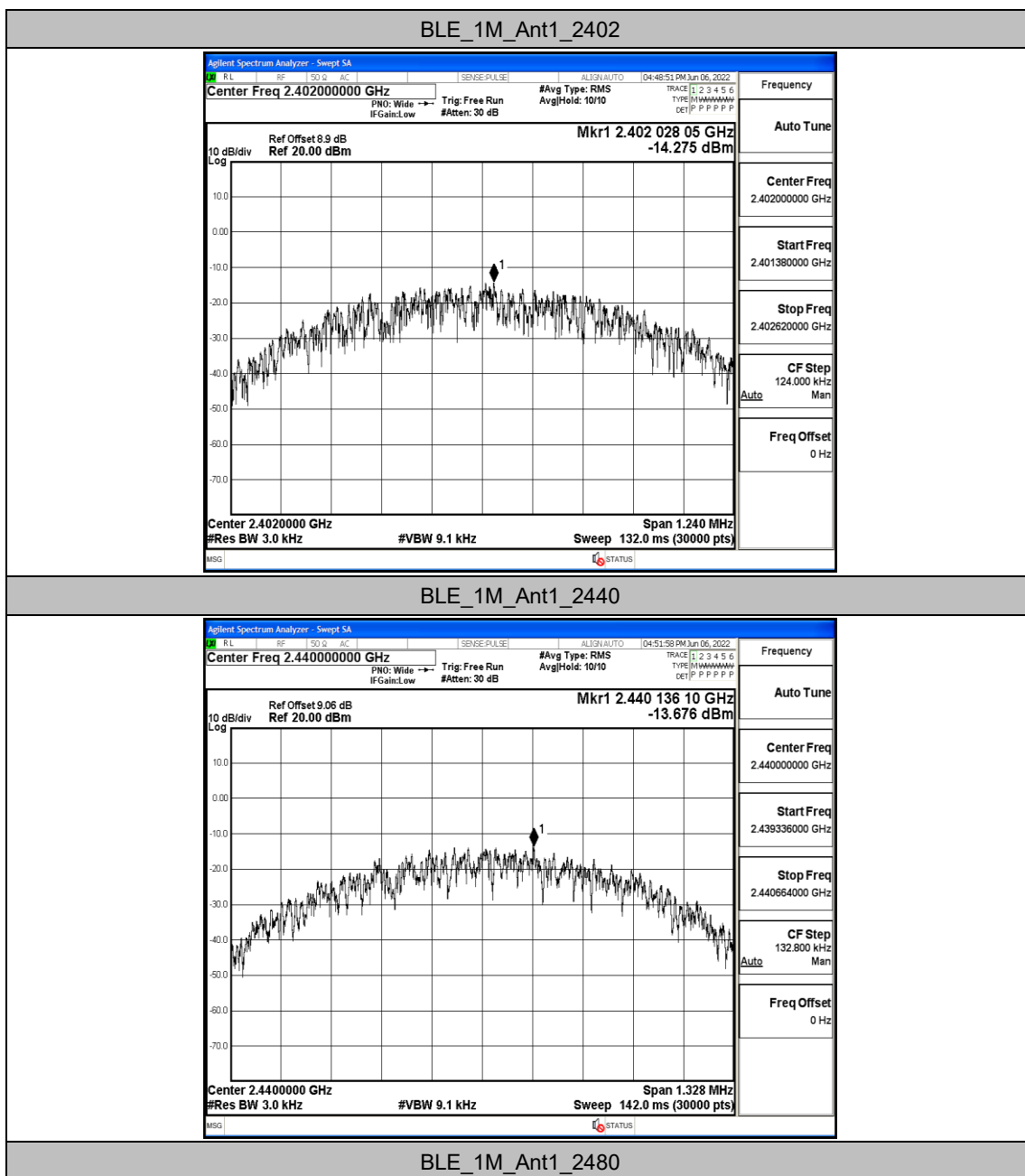


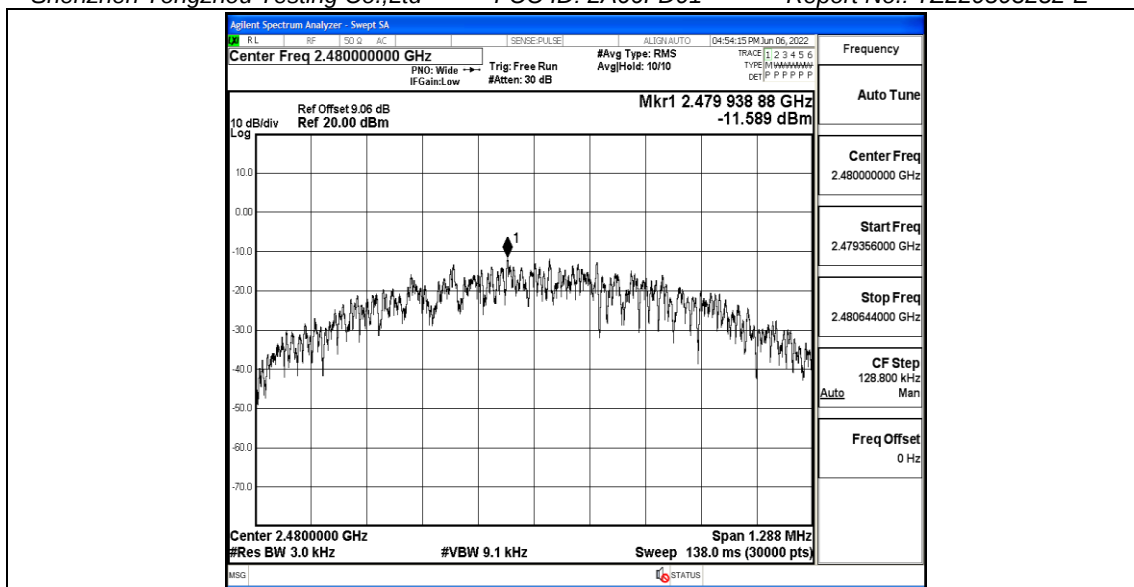
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -14.28               | ≤8.00           | PASS    |
|          |         | 2440    | -13.68               | ≤8.00           | PASS    |
|          |         | 2480    | -11.59               | ≤8.00           | PASS    |

## Test Graphs





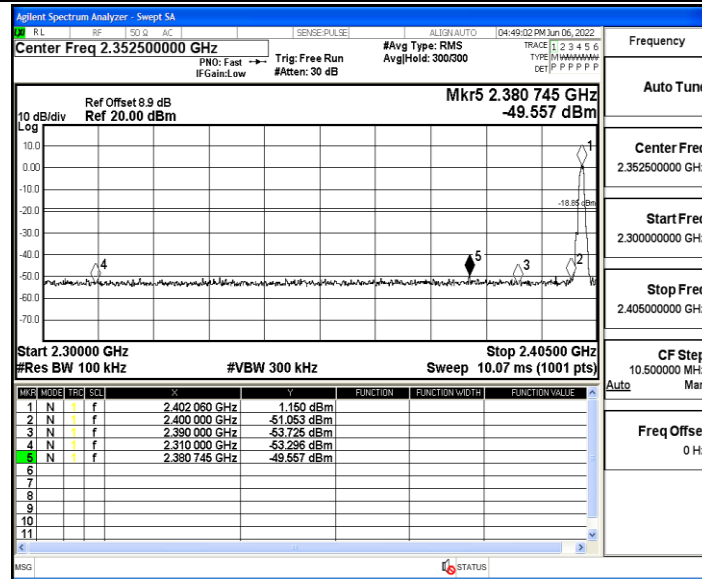
## Appendix E: Band edge measurements

### Test Result

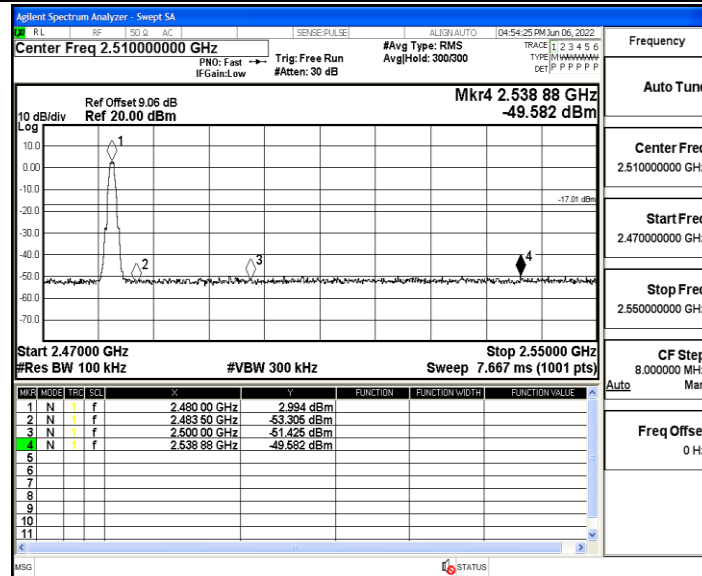
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 1.15          | -49.56      | ≤-18.85    | PASS    |
|          |         | High   | 2480    | 2.99          | -49.58      | ≤-17.01    | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480



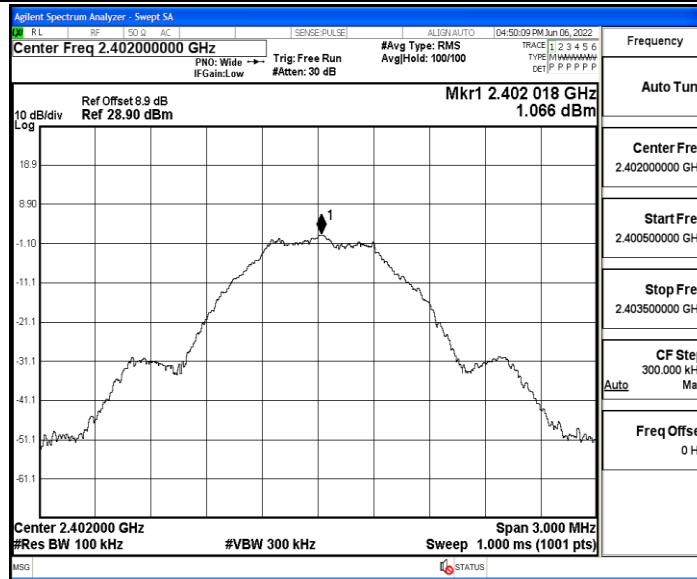
## Appendix F: Conducted Spurious Emission

### Test Result

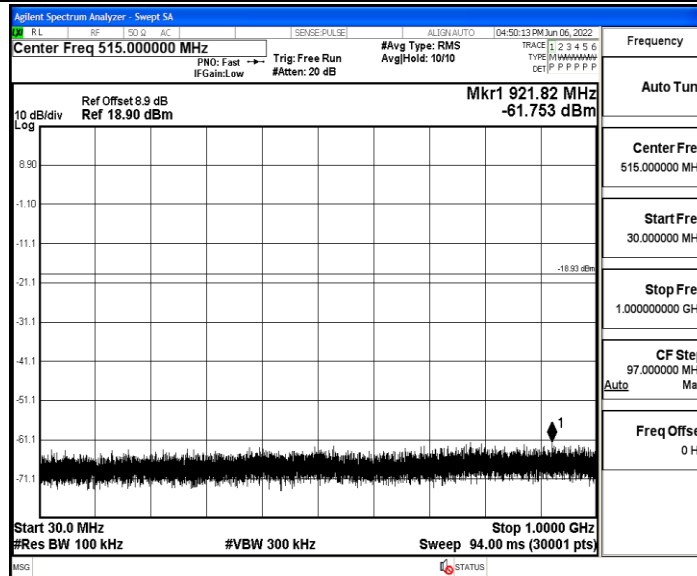
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | 1.07              | 1.07        | ---        | PASS    |
|          |         |         | 30~1000            | 1.07              | -61.75      | ≤-18.93    | PASS    |
|          |         |         | 1000~26500         | 1.07              | -51.4       | ≤-18.93    | PASS    |
|          |         | 2440    | Reference          | 1.28              | 1.28        | ---        | PASS    |
|          |         |         | 30~1000            | 1.28              | -61.77      | ≤-18.72    | PASS    |
|          |         |         | 1000~26500         | 1.28              | -51.83      | ≤-18.72    | PASS    |
|          |         | 2480    | Reference          | 2.31              | 2.31        | ---        | PASS    |
|          |         |         | 30~1000            | 2.31              | -60.72      | ≤-17.69    | PASS    |
|          |         |         | 1000~26500         | 2.31              | -51.4       | ≤-17.69    | PASS    |

## Test Graphs

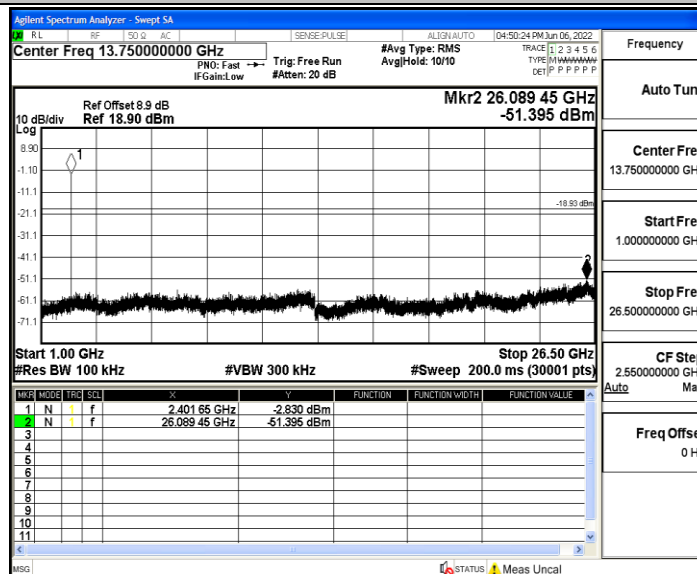
BLE\_1M\_Ant1\_2402\_0~Reference



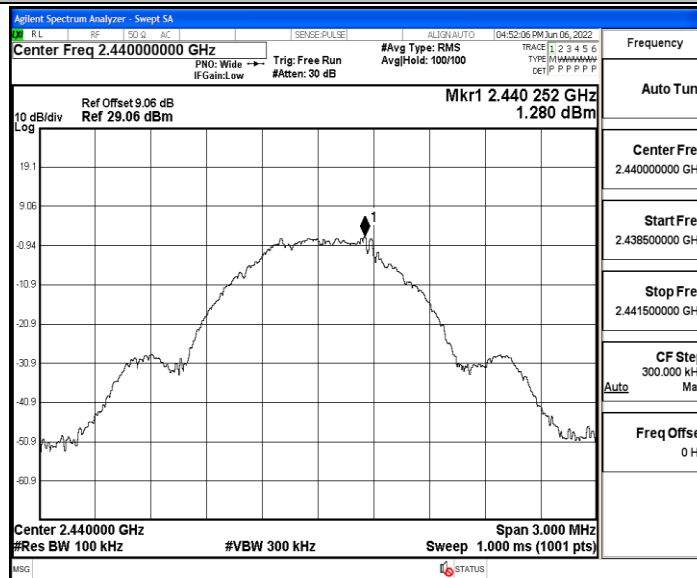
BLE\_1M\_Ant1\_2402\_30~1000



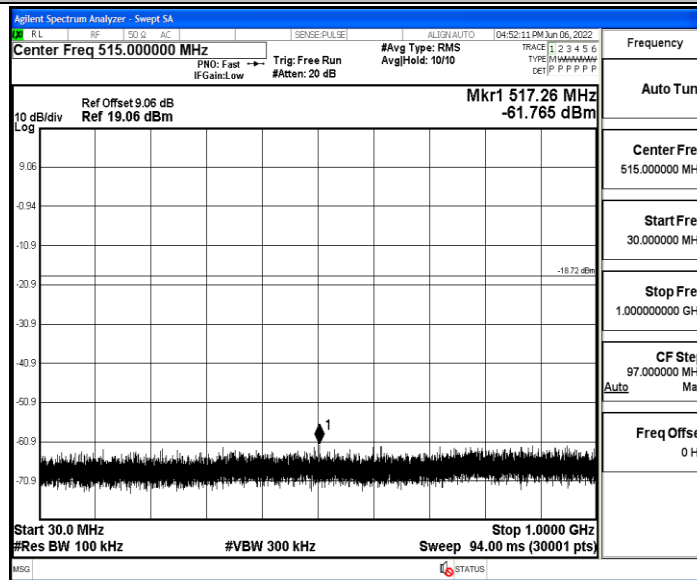
BLE\_1M\_Ant1\_2402\_1000~26500



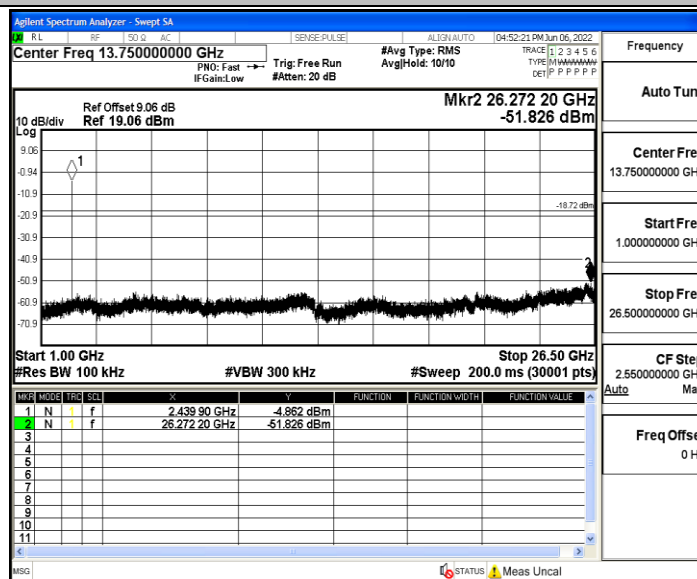
## BLE\_1M\_Ant1\_2440\_0~Reference



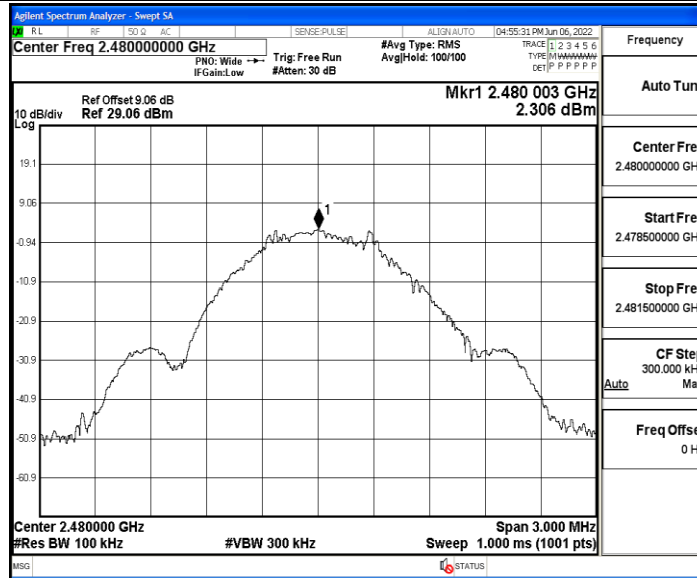
## BLE\_1M\_Ant1\_2440\_30~1000



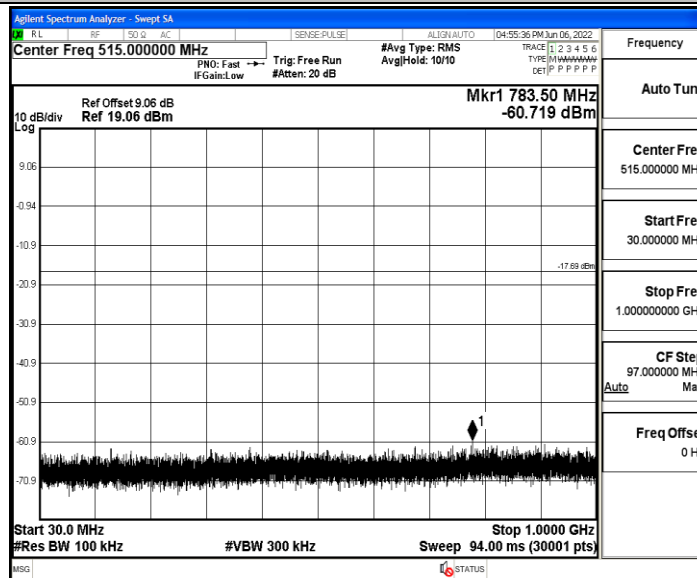
## BLE\_1M\_Ant1\_2440\_1000~26500



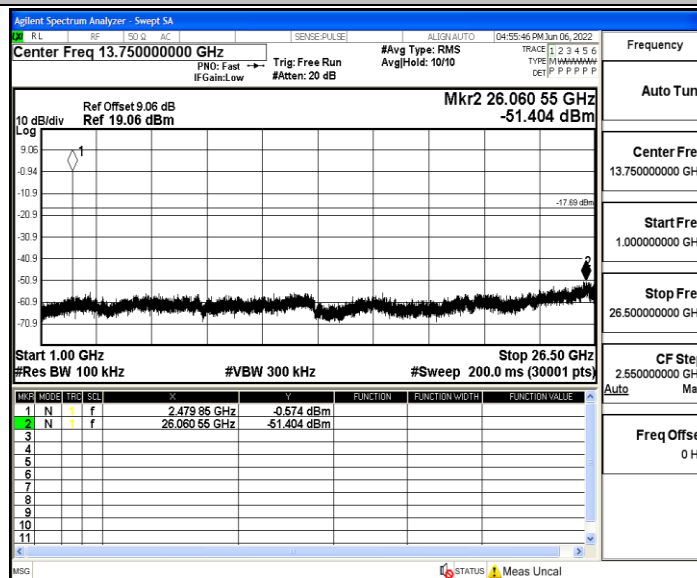
## BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500



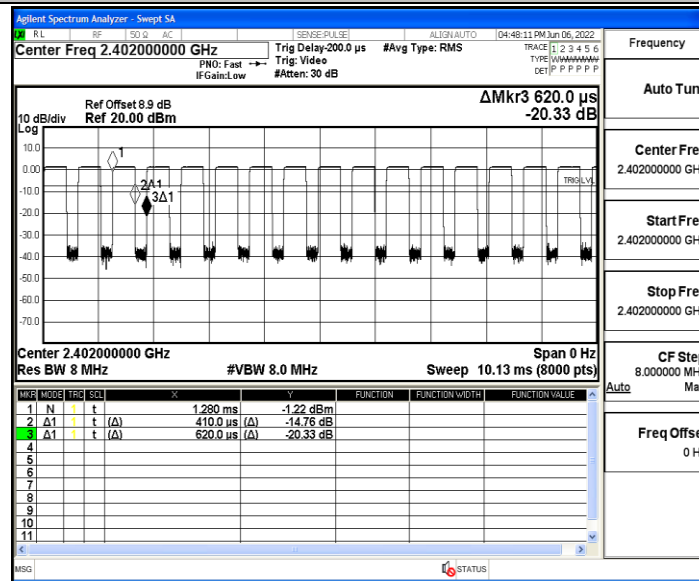
## Appendix G: Duty Cycle

### Test Result

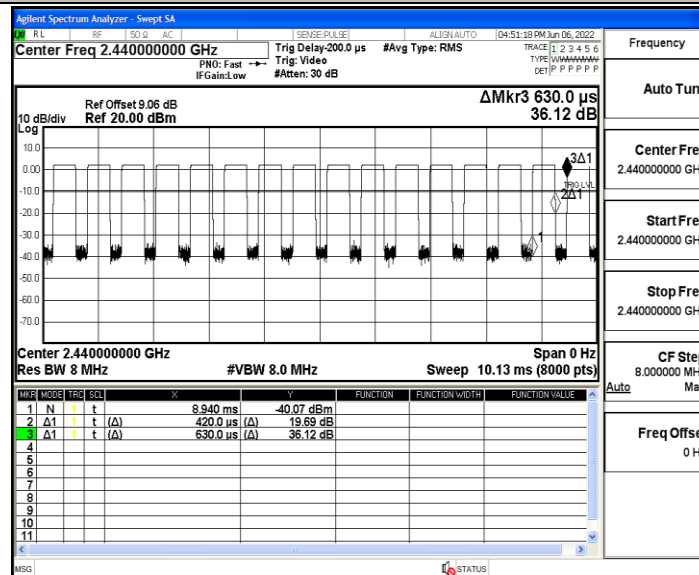
| TestMode | Antenna | Channel | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | 1/T[kHz] |
|----------|---------|---------|-------------------------------|-----------------------------|-------------------|----------|
| BLE_1M   | Ant1    | 2402    | 0.41                          | 0.62                        | 66.13             | 2.44     |
|          |         | 2440    | 0.42                          | 0.63                        | 66.67             | 2.38     |
|          |         | 2480    | 0.42                          | 0.63                        | 66.67             | 2.38     |

## Test Graphs

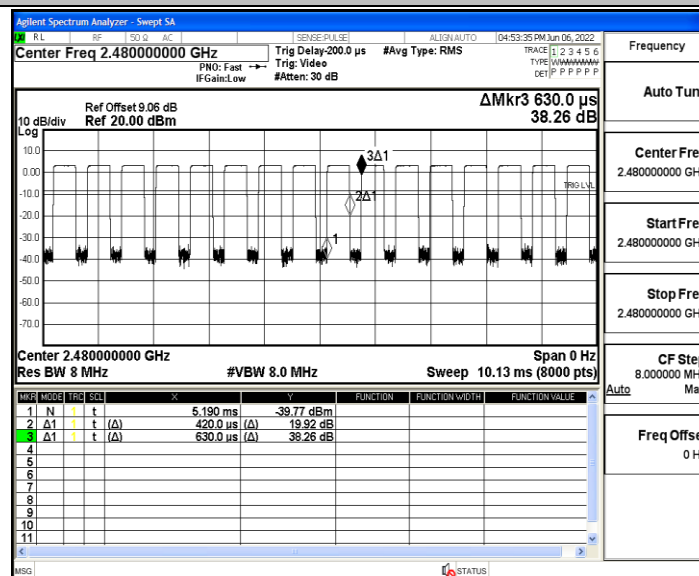
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



## Appendix H: Emissions in Restricted Bands

### Test Result

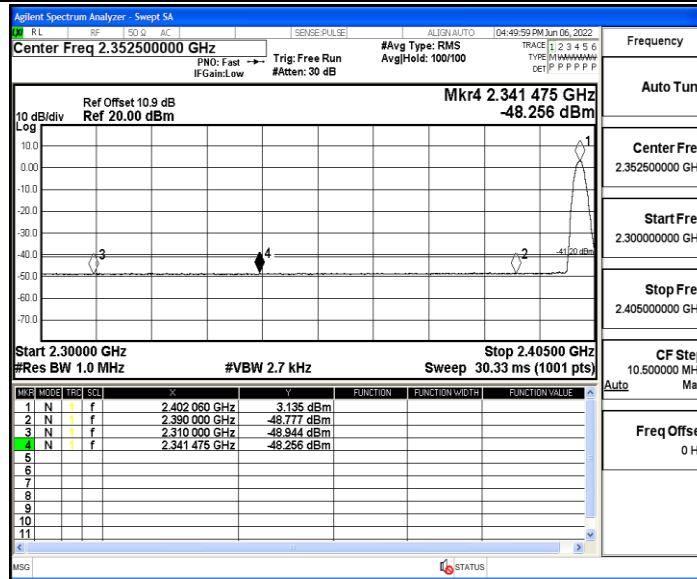
| TestMode | Antenna | ChName | Channel | Detector | Freq.<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|---------|----------|----------------|-----------------|----------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | AV       | 2310.000       | -48.94          | ≤-41.20        | PASS    |
|          |         |        |         | AV       | 2341.475       | -48.26          | ≤-41.20        | PASS    |
|          |         |        |         | AV       | 2390.000       | -48.78          | ≤-41.20        | PASS    |
|          |         |        |         | Peak     | 2310.000       | -41.22          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2337.590       | -39.44          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2390.000       | -41.92          | ≤-21.20        | PASS    |
|          |         | High   | 2480    | AV       | 2483.500       | -46.71          | ≤-41.20        | PASS    |
|          |         |        |         | AV       | 2483.520       | -46.71          | ≤-41.20        | PASS    |
|          |         |        |         | AV       | 2500.000       | -48.03          | ≤-41.20        | PASS    |
|          |         |        |         | Peak     | 2483.500       | -41.4           | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2484.560       | -38.54          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2500.000       | -40.75          | ≤-21.20        | PASS    |

**Note:**

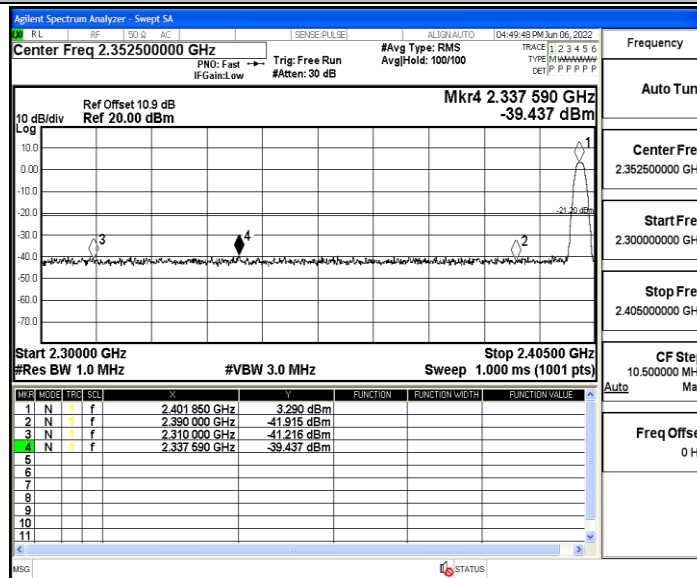
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

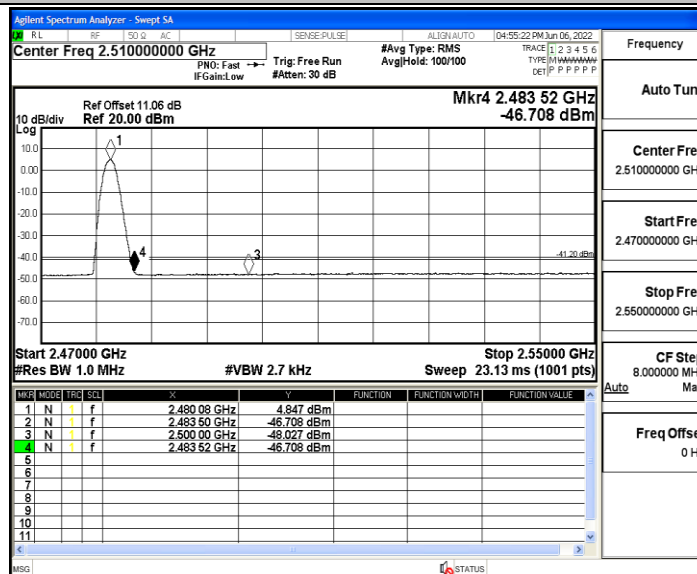
BLE\_1M\_Ant1\_Low\_2402\_AV



BLE\_1M\_Ant1\_Low\_2402\_Peak



BLE\_1M\_Ant1\_High\_2480\_AV



## BLE\_1M\_Ant1\_High\_2480\_Peak

